

□ Hollow-fiber membrane modules

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AB	Hollow-fiber membrane is a shell-and-tube module with a tube plate at each end of a fiber bundle and plugged at an end in the plate. Among the tube bundle, the module has several perforated pipes (diam. 0.1-10 mm) as distributors for feeding washing liq. against fibers externally in the shell, parallel to the tube bundle. Scales and colloids deposition on the outer surface of the hollow fibers are washed effectively by air or air-washing liq. mixt. injected from the distributor tubes.				